

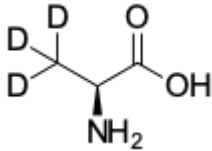
L-Alanine-d3

<http://hk.lumiprobe.com/p/l-alanine-d3>

L-Alanine-d3 is the deuterium-labeled L-alanine and is intended for use as an analytical reference standard in LC-MS/MS.

Alanine is one of the principal amino acid substrates for hepatic gluconeogenesis and ureagenesis. Alanine is produced in peripheral tissues in transamination processes with glutamate, branched-chain amino acids, and other amino acids; following its release in the systemic circulation, alanine is predominantly taken up by the liver and to a lesser extent by the kidney. High alanine levels (hyperalaninemia) could be a marker for liver disease, diabetes mellitus, muscle breakdown, or genetic disorders like pyruvate dehydrogenase deficiency and alanine-glyoxylate aminotransferase 2 (AGXT2) deficiency. Low level of alanine (hypoalaninemia) could be marker of hypoglycemia or ketoacidosis.

Quantification of this important metabolite and biomarker in dried blood samples can be performed most efficiently by LC-MS/MS using Alanine-d3 as a standard.



外观:

分子量: 92.11

分子式: $C_3H_4D_3NO_2$

溶解度:

质量控制: NMR 1H 和 HPLC-MS (95+%, D: 98+%)

储存条件:

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